

[illegible]

Fig. 1

	Thermal Conductivity [W/K-cm]	Mobility [cm <sup>2</sup> /V-s]	
		electron	hole
InP	0.68	4600	150
AlAsSb	0.04	80	
AlGaAsSb	0.03	700	
GaAs	0.45	8500	400

Fig 2

The graph plots Light output [mW] on the left y-axis (0 to 0.3) against Current [mA] on the x-axis (0 to 20). The right y-axis shows Voltage [V] (0 to 8). Three solid curves represent the light-current characteristics at 0°C, 10°C, and 20°C. The 0°C curve has the highest peak light output (~0.28 mW at ~12 mA). The 10°C curve peaks at ~0.15 mW at ~10 mA. The 20°C curve peaks at ~0.11 mW at ~10 mA. A dashed line shows the voltage-current characteristic, which is linear and passes through approximately (0, 0.5 V) and (20, 6 V). An arrow points to the dashed line with the label  $\phi$ .

Fig 3

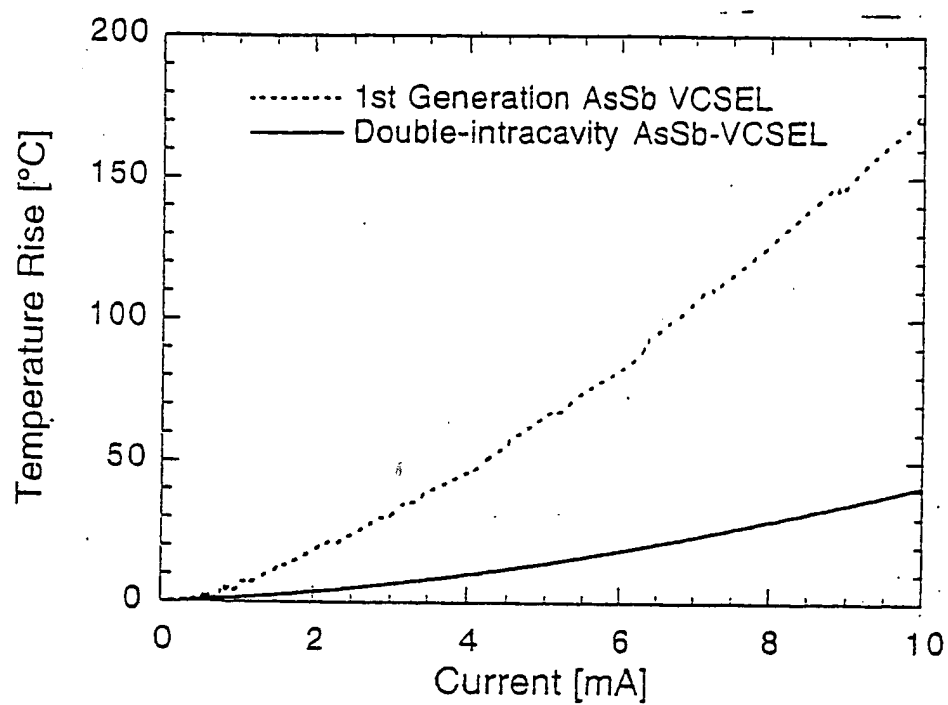


Fig. 4

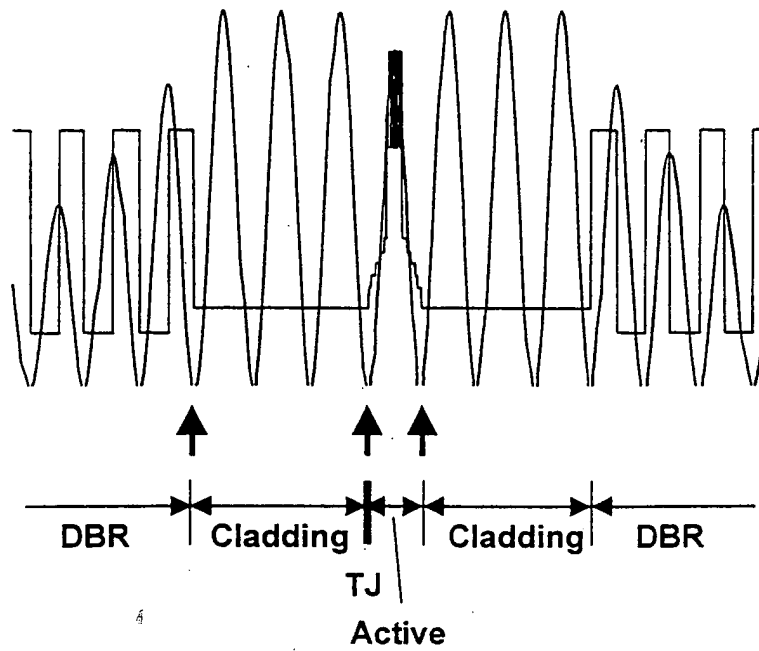


Fig 5

Fig. 6

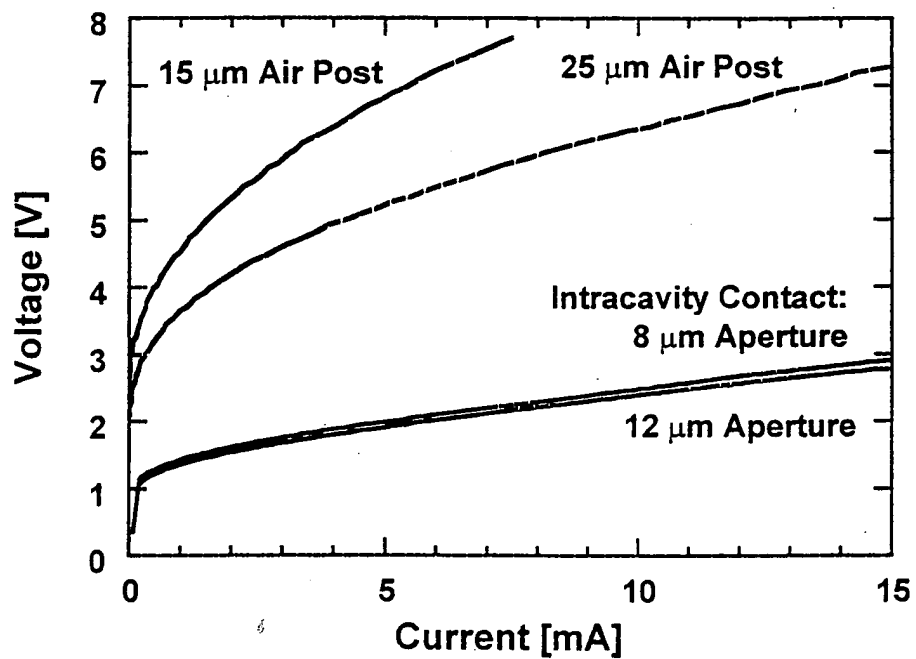


Fig 7

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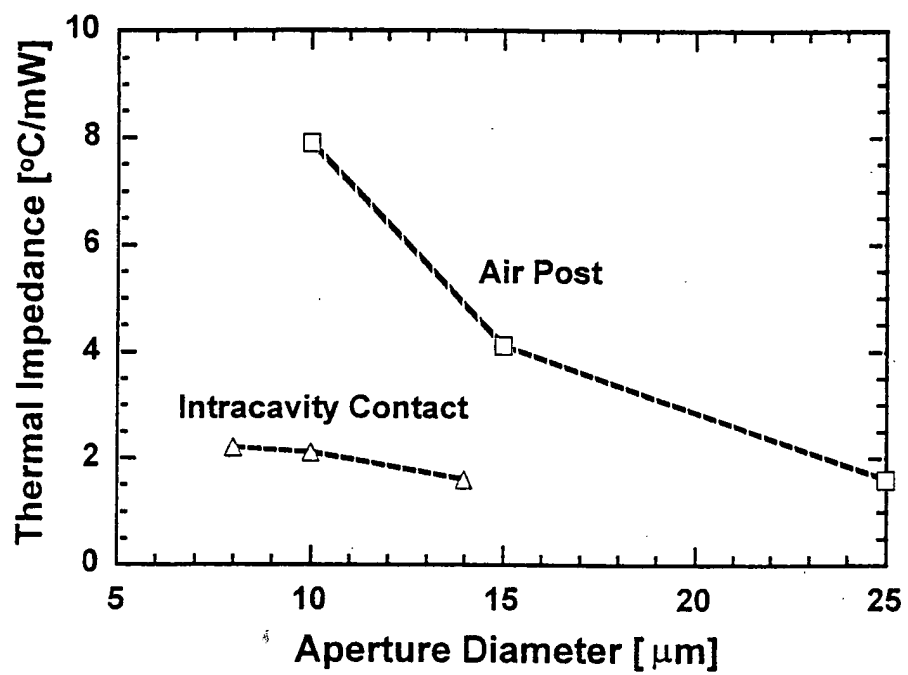


Fig. 8



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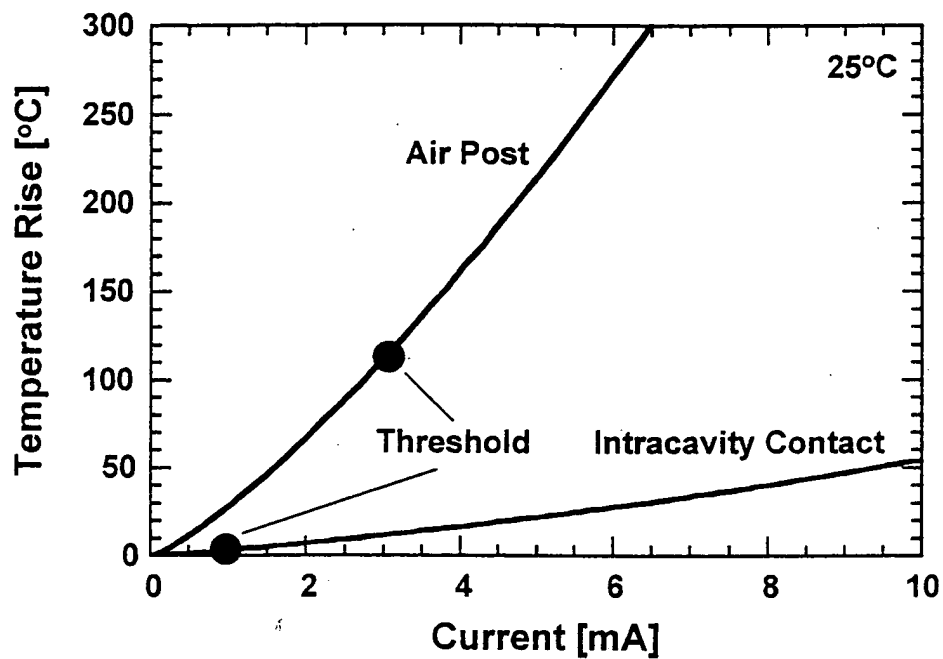


Fig 9